

Jonathan B. Postel

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Education:

1974 Ph.D. Computer Science	UCLA
1968 M.S. Engineering	UCLA
1966 B.S. Engineering	UCLA

Experience:

Mar 76 to Present -- USC - Information Sciences Institute

Jun 92 - Present -- Associate Director, HPCC Division

In June 1992, ISI created the High Performance Computing and Communications Division (Division 7), combining the old Communications Division, the old Systems Division, and other activities, under a new director Peter Will. Jon Postel has two responsibilities in the new HPCC division: (1) Associate Director for Networking, and (2) Associate Director for Administration.

As Associate Director for Networking, Jon is responsible for leading the scientific effort on five contracts involving ten task areas and 15 people.

Current work includes gigabit speed local area networks, personal teleconferencing, protocol engineering, and Internet infrastructure.

As Associate Director for Administration, Jon is responsible for the administrative issues for nine contracts involving 16 tasks and 25 people.

Jon is also very involved in developing ideas for new projects.

Jul 89 - Jun 92 -- Director, Communications Division

Division Director of the Communications Division (Division 7) of ISI with responsibility for coordination of three contracts of five projects with about 25 people. Involved in the development of new projects.

Continuing involvement with the evolution of the Internet through the work of the various ISI projects on Internet Concepts, Multimedia Conferencing, Protocol Engineering and Technical Planning, Parallel Computing System Research, and the Fast Parts Automated Broker.

Supervision of the Los Nettos regional network during its growth from five to eleven nodes.

In June 1989 the old Systems Division was split into the Communications Division and the new Systems Division.

Jul 88 - Jun 89 -- Director, Systems Division

Division Director of the Systems Division (Division 2) of ISI with responsibility for coordination of five contracts of eight projects with about 50 people. Involved in the development of new projects.

Involved in the evolution of the Internet through the work of the various ISI projects on Internet Concepts, Multimedia Conferencing, Protocol Engineering and Technical Planning, Fast Parts Automated Broker, Parallel Computing System Research, and Advanced Packaging Technology.

Involved in the creation of the "Los Nettos" regional network for the Los Angeles area. Supervised the establishment of the initial five nodes.

Jul 86 - Jun 88 -- Associate Director, Systems Division

Involved in the day to day management of the Systems Division, including project and contract management and budget supervision, proposal development, personnel management.

Jan 78 - Sep 90 -- Project Leader, Internet Concepts Project

Project Leader of the Internet Concepts project at ISI which has created prototype implementations of several of the protocols developed for the ARPA community, including the Simple Mail Transport Protocol (SMTP), the Domain Name Service

(DNS), and an experimental Multimedia Mail system.

Participated in the Internet Activities Board and served as the editor of the "Request for Comments" Internet document series.

Mar 76 - Dec 77 -- Technical Staff

Studied the possible approaches for converting the ARPANET from the NCP protocol to the TCP protocol. Participated in the design of many protocols for the ARPA community including the Internet Protocol (IP) which provides the basis for the Internet.

Oct 74 to Mar 76 -- SRI International

Worked in Doug Engelbart's Augmentation Research Center (ARC) developing the NLS (later called Augment) system. Special focus was on communication issues. Led a special project to develop protocol specifications for the Defense Communication Agency (DCA) for AUTODIN-II. This protocol was a version of the Transport Control Protocol (TCP). Most of the development effort during this period at ARC was focused on the National Software Works (NSW) sponsored by ARPA and the Air Force. At the end of this period at ARC, lead the development group (ARC-DEV) of about 20 people.

Jul 74 to Sep 74 -- Keydata

Redesigned and reimplemented the NCP in the DEC PDP-15 data management system used by ARPA to provide general communication functionality.

Oct 73 to Jun 74 -- The Mitre Corporation

Conducted a study of ARPANET Network Control Protocol implementations, published as a MITRE technical report.

Oct 67 to Jun 73 -- UCLA

Involved in development of the META-5 compiler-compiler system. A member (and later leader) of the programming team for the ARPANET Network Measurement Center. This team developed a time-sharing operating system for the SDS Sigma-7, and participated in the ARPA community effort to define the protocols (NCP, Telnet, etc.) for the ARPANET.

Selected Recent Publications:

Postel, J., "Main Applications", Chapter 6, pp 183-274, in "Internet System Handbook", Daniel C. Lynch, ed., Addison-Wesley, 1993.

Schooler, E., S. Casner, and J. Postel, "Multimedia Conferencing: Has it Come of Age?", Proceedings of the 24th Hawaii International Conference on Systems Sciences, pp 707-716, Kauai, Hawaii, January 1991.

Postel, J., "A Book Report: The Cookoo's Egg", ACM Computer Communications Review, Vol20, No 1, January 1990. Also in Connexions: The Interoperability Report, Vol 4, No 1, January 1990.

Postel, J., "Computer Network Interconnection", Proceedings of the Eleventh World Congress of the International Federation for Information Processing, San Francisco, California, in Information Processing 89, G.X. Ritter(ed.), Elsevier Science Publishers B.V. (North-Holland), IFIP, August 1989.

Postel, J.B., G.G. Finn, A.R. Katz, and J.K. Reynolds, "An Experimental Multimedia Mail System", ACM Transactions on Office Information Systems, Vol. 6, No. 1, January 1988.

Reynolds, J. K., J. Postel, A. Katz, G. Finn, and A. DeSchon, "The DARPA Experimental Multimedia Mail System", Computer, Vol. 18, No. 10, October 1985.

Leiner, B., R. Cole, J. Postel, and D. Mills, "The DARPA Internet Protocol Suite", IEEE INFOCOM85, Washington D.C., March 1985. Also in IEEE Communications Magazine, March 1985. Also as ISI/RS-85-153.

Postel, J., "Internetwork Applications Using the DARPA Protocol Suite", IEEE INFOCOM85, Washington D.C., March 1985. Also as ISI/RS-85-151.

Mockapetris, P., J. Postel, and P. Kirton, "Name Server Design for Distributed Systems", Proceedings of the Seventh International Conference on Computer Communication, October 30 to November 3 1984, Sidney, Australia. Also as ISI/RS-84-132, June 1984.

Cohen, D., and J. Postel, "The ISO Reference Model and Other Protocol Architectures", Proceedings of the Ninth World Congress of the International Federation for Information Processing, Paris, France, September 1983. Also as ISI/RS-83-6, November 1983.